

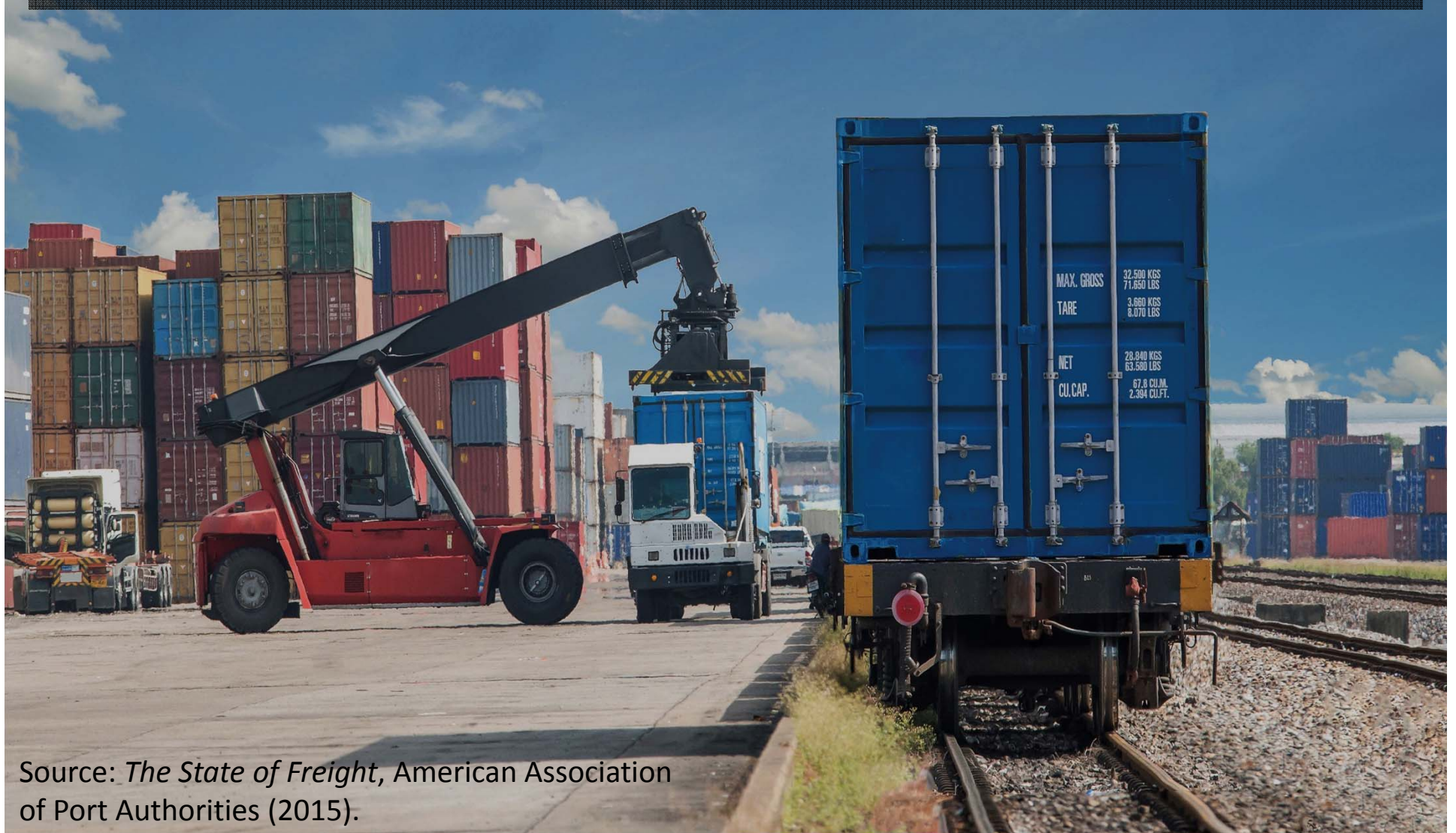


Overview of EPA's Ports Initiative

Sarah Froman and Rob Schweinfurth
U.S. EPA - Office of Transportation & Air Quality

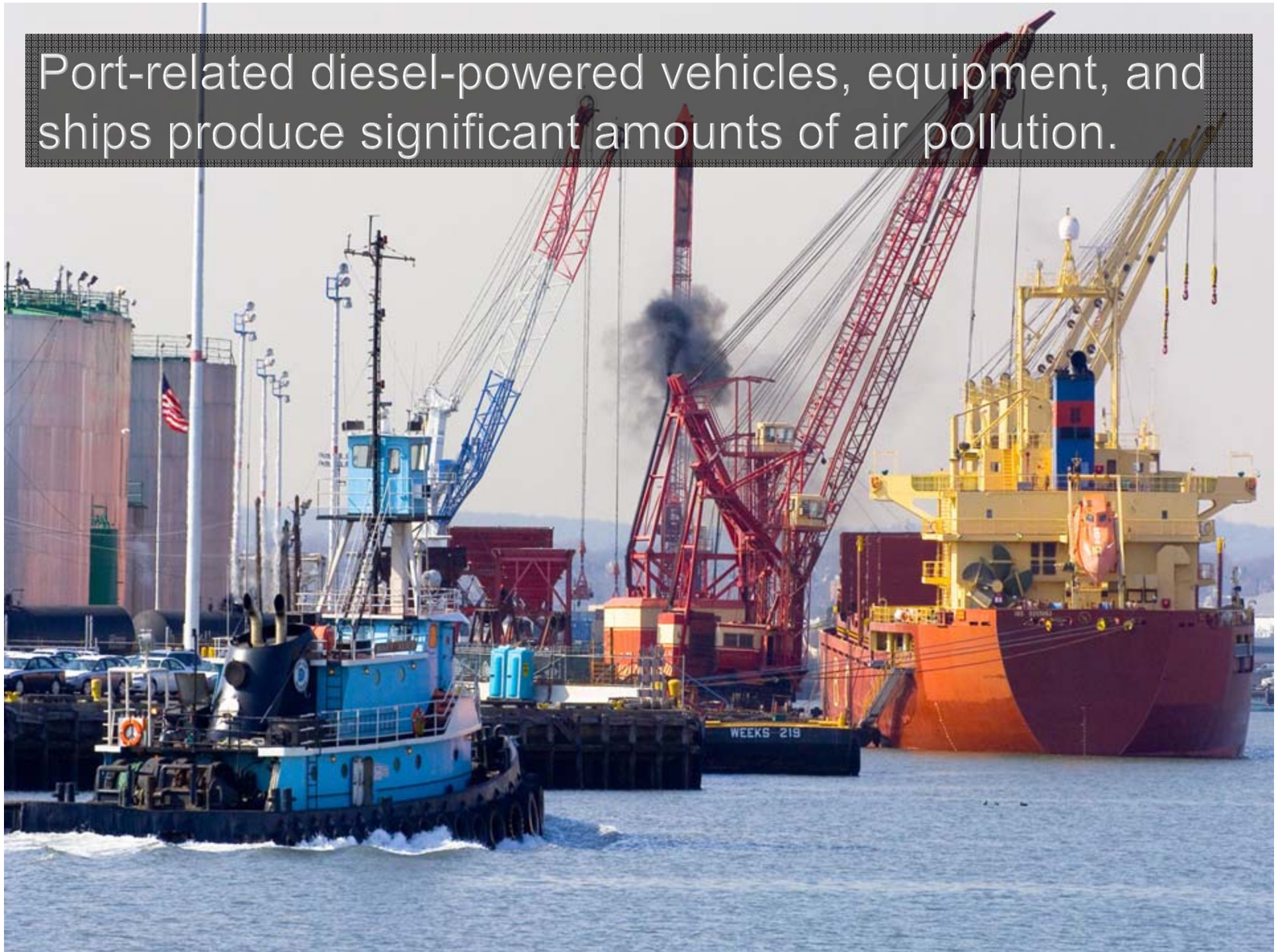
Vibrant Ports – Healthy Ports Workshop in Philadelphia, PA
October 24, 2017

Martin Associates estimates that seaports support about 23 million U.S. jobs and 26% of U.S. Gross Domestic Product.

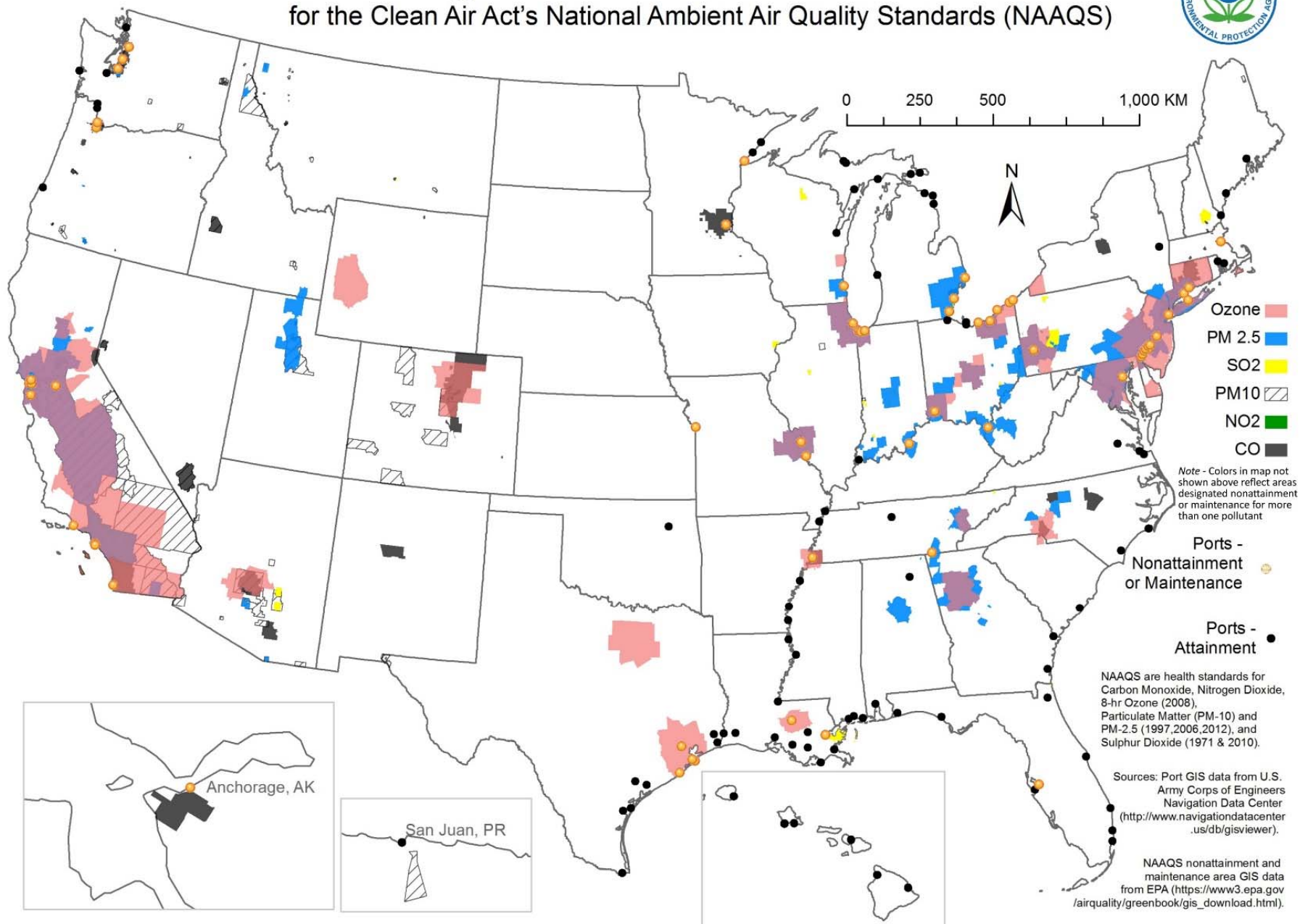


Source: *The State of Freight*, American Association of Port Authorities (2015).

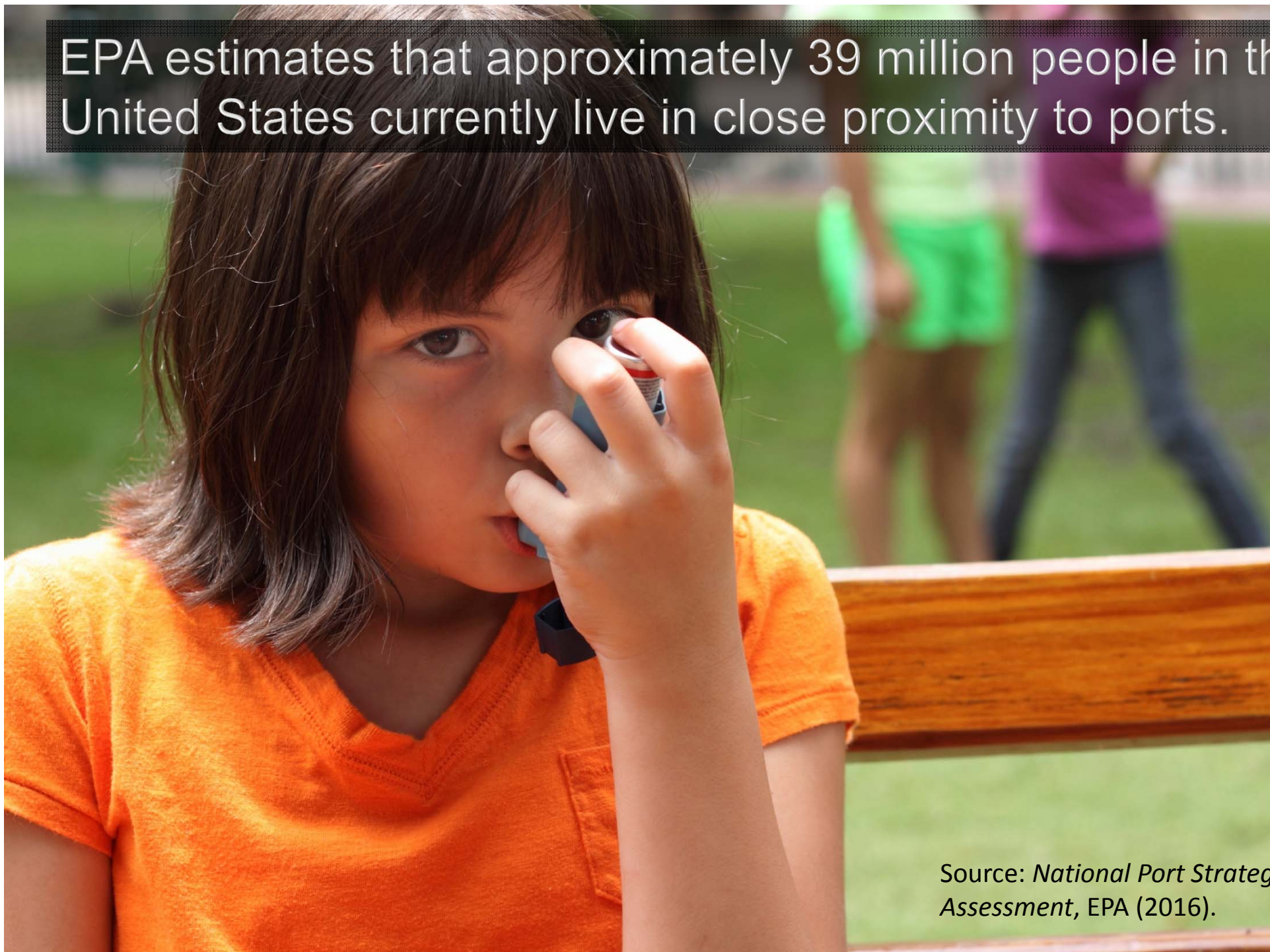
Port-related diesel-powered vehicles, equipment, and ships produce significant amounts of air pollution.



Ports in Areas Designated Nonattainment or Maintenance for the Clean Air Act's National Ambient Air Quality Standards (NAAQS)



EPA estimates that approximately 39 million people in the United States currently live in close proximity to ports.



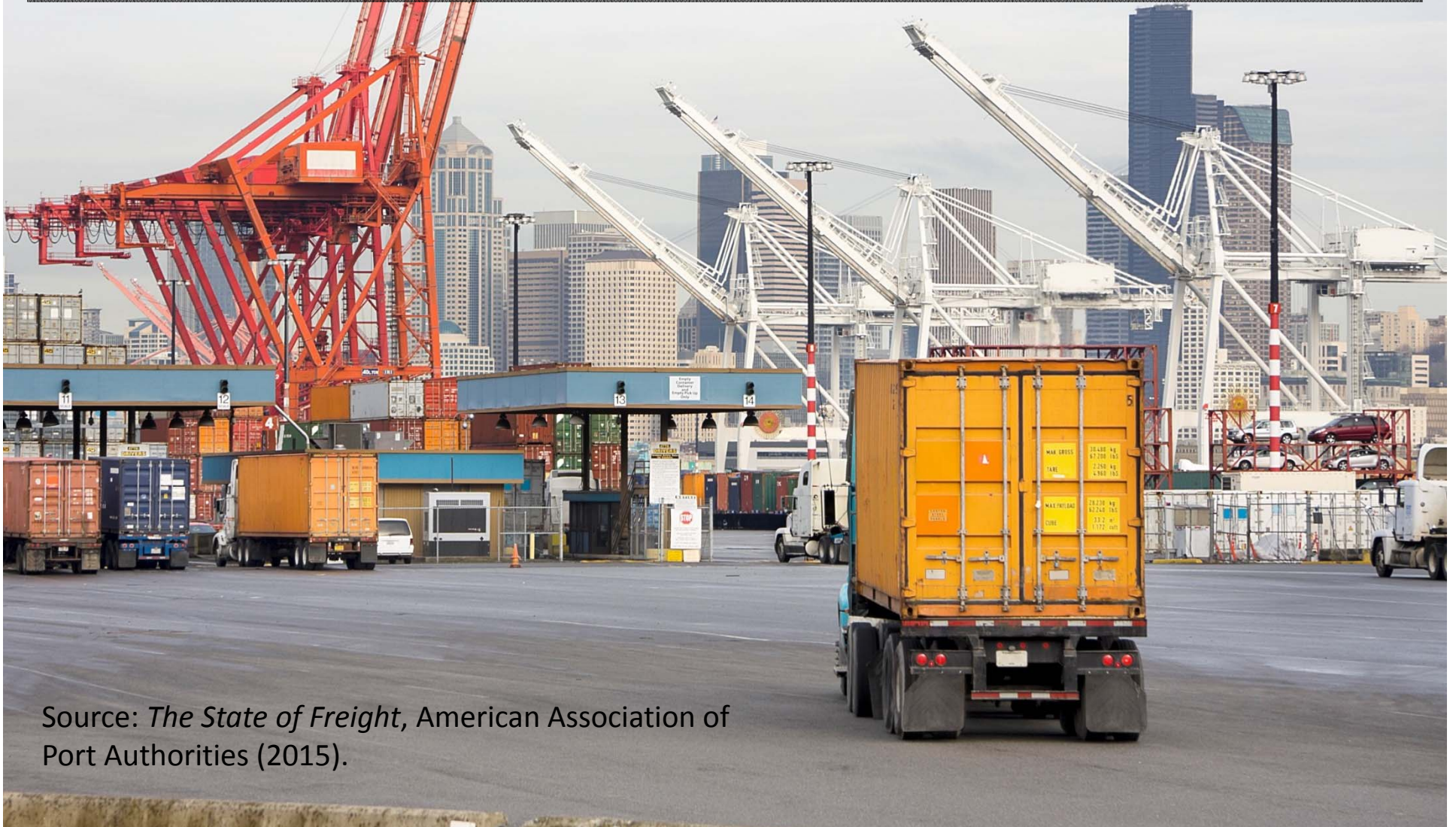
Source: *National Port Strategy Assessment*, EPA (2016).

OECD estimates that global freight volumes will more than quadruple by 2050.



Source: Jari Kauppila, Senior Economist, Head of Outlook and Statistics, OECD (Smart Freight Leadership, Leipzig, 26 May 2015).

American Association of Port Authorities estimates that ports need \$28.9 billion for landside infrastructure alone to handle projected 2025 freight volumes.



Source: *The State of Freight*, American Association of Port Authorities (2015).



Vision for the Ports Initiative

People living and working near ports across the country will breathe cleaner air and live better lives as a result of bold steps taken through a collaboration of industry, government, and communities to improve environmental performance and increase economic prosperity.

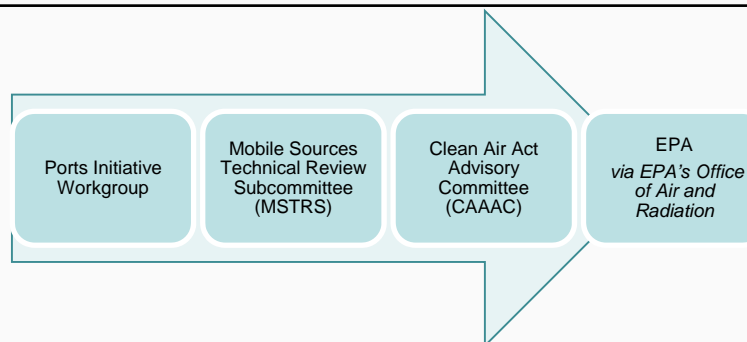




Ports Initiative Workgroup

Ports:	Maryland, Charleston, Long Beach, New Orleans, Virginia
Terminals:	Ports America
Shippers:	Cargill, Walmart, HP
Equipment:	Caterpillar, Manufacturers of Emission Controls Association
Marine:	Maersk Line
Rail:	Burlington Northern Santa Fe
Trucking:	Evans Delivery
Port Community Advocates:	East Yard Communities for Environmental Justice, Southeast CARE Coalition, Steps Coalition
Tribes:	Fond du Lac Air Program
NGOs:	Environmental Defense Fund, Natural Resources Defense Council
Research/analysis:	International Council on Clean Transportation
Government:	New Jersey DEP, South Carolina DHEC, MARAD, CMTS
Non-voting:	American Association of Port Authorities, StarCrest (B. Anderson)
EPA support:	Office of Transportation Air Quality , Office of Environmental Justice, Office of Water, Region 1, Region 2, Region 6, Region 9

Full list of individual members available at www.epa.gov/caaac



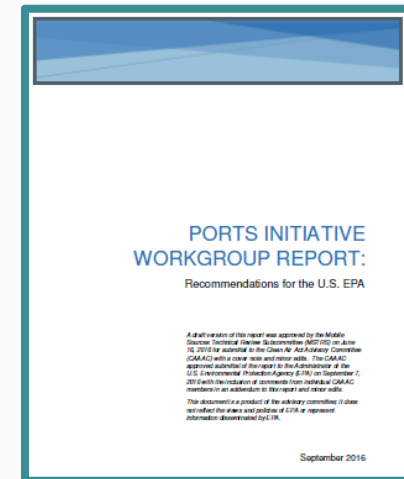


Recommendations from Workgroup (September 2016)

Overarching recommendation: provide funding, technical resources, and expertise to enable and encourage environmental improvements.

Focal Areas

- Increasing and Targeting Funding
- Community-Port Engagement
- Guidance on Inventories and Metrics
- Guidance on Emission Reduction Strategies
- Coordinating Relevant Government Programs
- Information Clearinghouse and Communications



www.epa.gov/caaac



Ports Initiative Elements

Funding

Helping Ports Capitalize on Funding for Clean Technologies

Technical Resources

Providing Tools to Help Identify Smart Infrastructure Investments

Collaboration

Promoting Port-Community Collaboration for Effective Planning

Coordination

Increasing Efficiency in Federal Government and Port Operations

Communications

Creating a Knowledge Clearinghouse



Technical Resources

EPA-Port Everglades Partnership

- EPA and Port Everglades are working together to develop:
 - ✓ Activity-based baseline emissions inventory
 - Emission reduction scenarios and inventories for future analysis years
 - Methods, lessons learned, and practical examples that EPA can share with other ports, related agencies, and stakeholders to support and encourage sustainable development.
- Target for completion: Early 2018



2015 Baseline Air Emissions Inventory is available at:
www.porteverglades.net/environment/air-quality/air-emissions-inventory

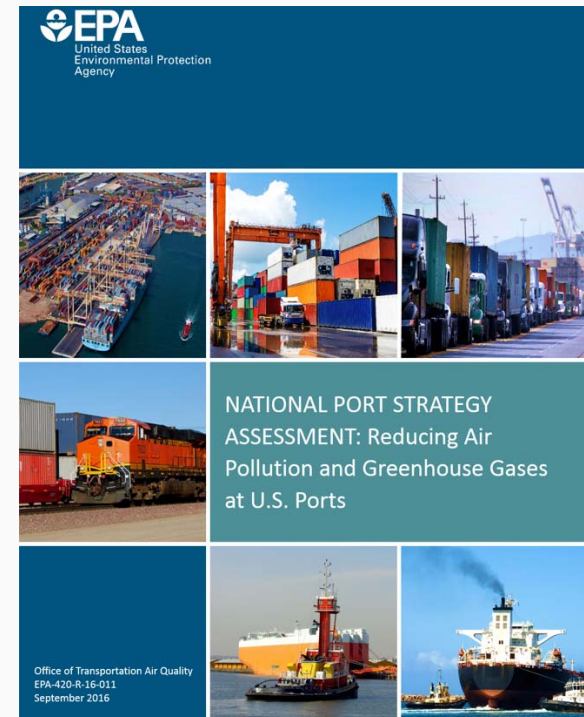
Also see: www.epa.gov/ports-initiative/epa-partnership-agreement-broward-countys-port-everglades 12



Technical Resources

National Port Strategy Assessment

- *National Port Strategy Assessment: Reducing Air Pollution and Greenhouse Gases at U.S. Ports*
- Released September 22, 2016
- Available at: www.epa.gov/ports-initiative/national-port-strategy-assessment

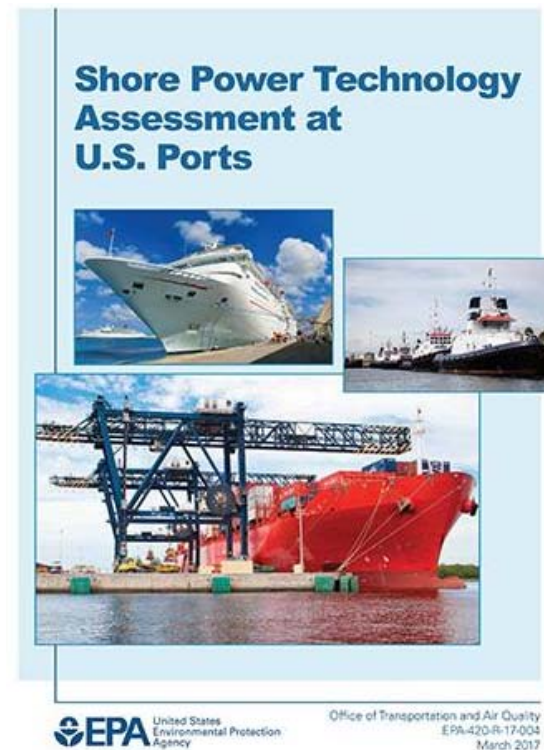




Technical Resources

Shore Power Assessment

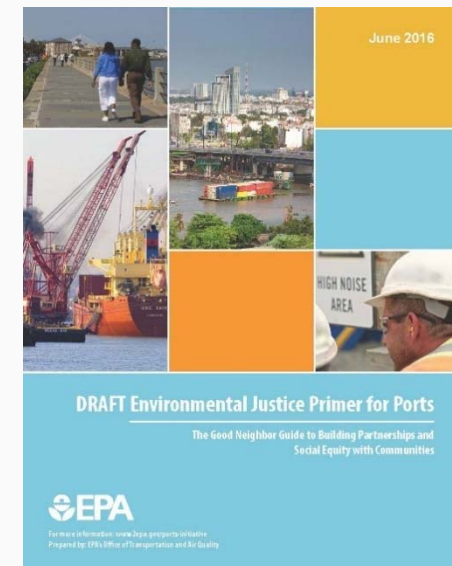
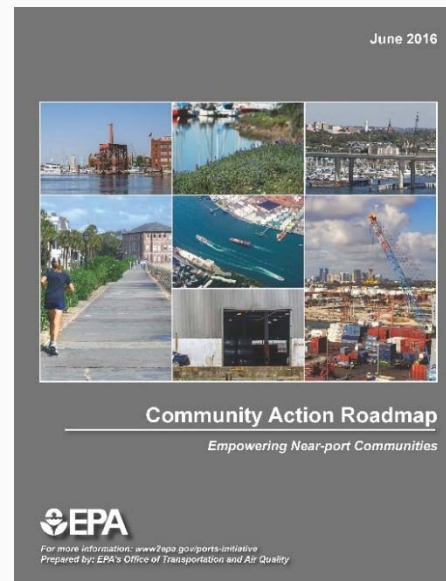
- Characterizes shore power systems at U.S. ports
- Includes a new methodology for calculating emission reduction of shore power systems
- Released April 4, 2017
- Available at: www.epa.gov/ports-initiative/shore-power-technology-assessment-us-ports





Collaboration

Community-Port Capacity Building

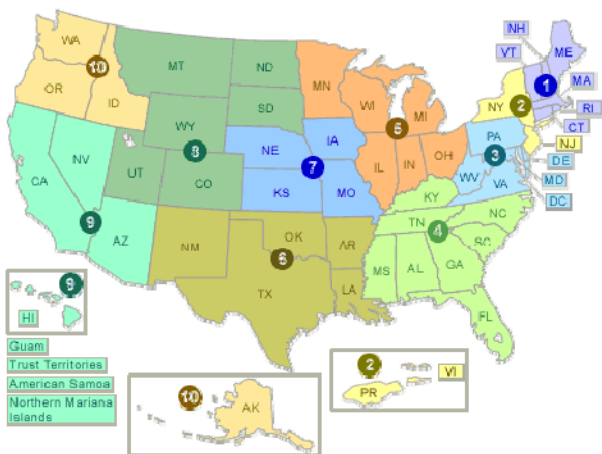


- EPA convening dialogues with local partners, delivering technical assistance, and piloting draft tools
 - Initial pilots: Savannah, GA; New Orleans, LA; and Seattle, WA
 - See www.epa.gov/ports-initiative/pilot-projects-port-and-near-port-community-collaboration



Coordination

Increasing Efficiency in Federal and Port Operations

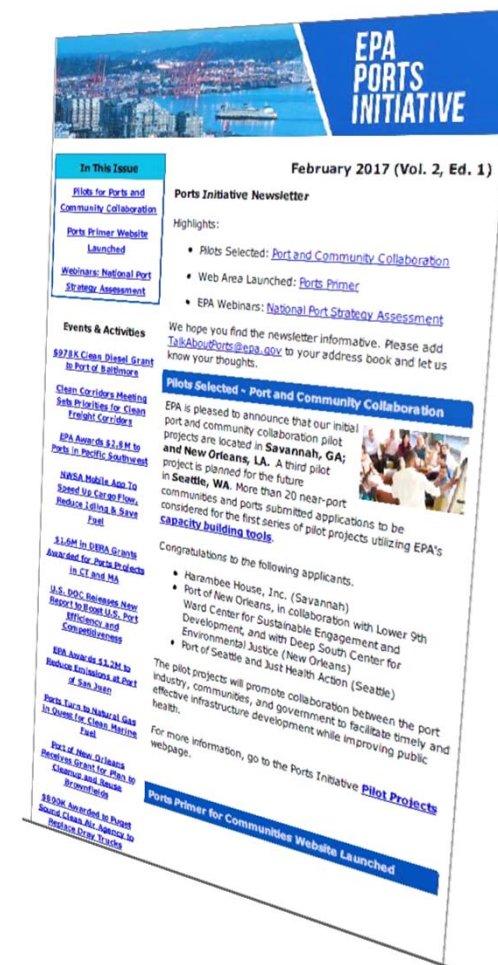




Communications

EPA's Ports Initiative website, including newsletter sign-up:

www.epa.gov/ports-initiative





Keep in touch:

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Port Locations in EPA Regions

